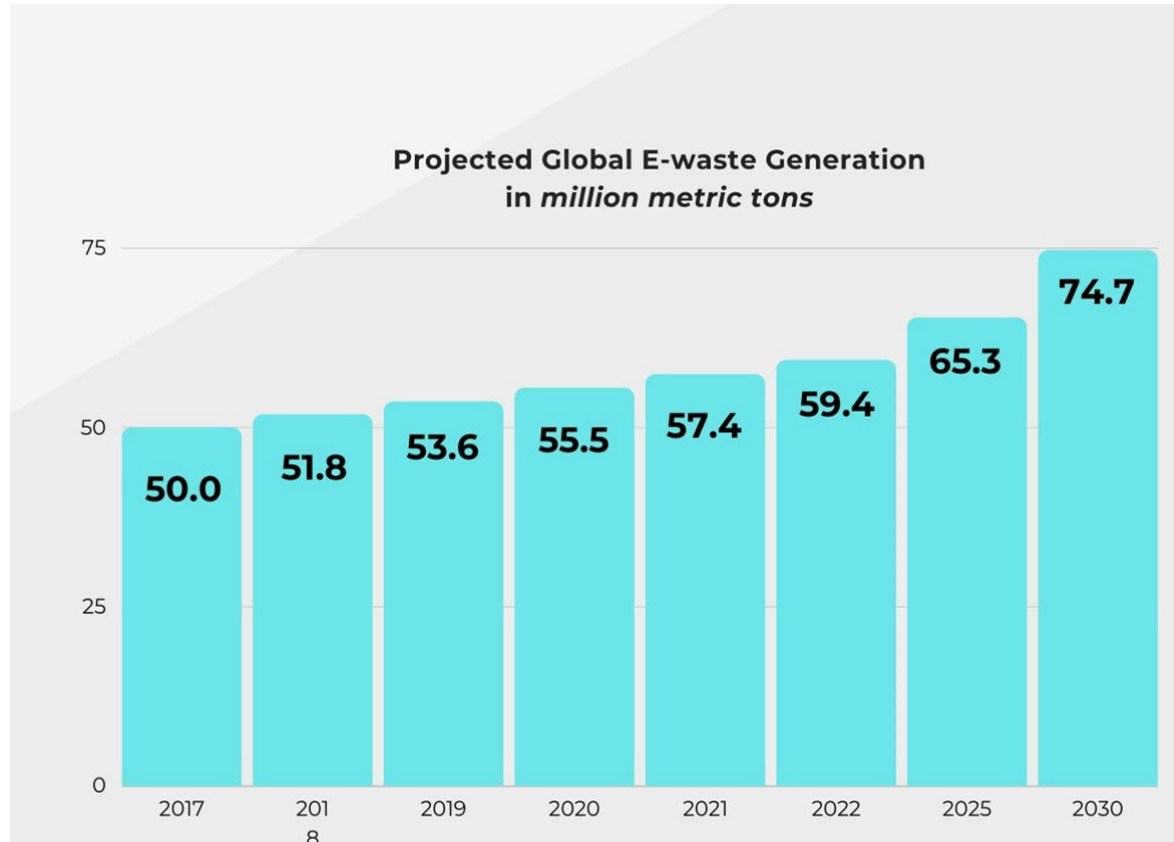




Hazardous Materials in the Waste Stream

Impacts and Mitigation Strategies at E-waste Facilities

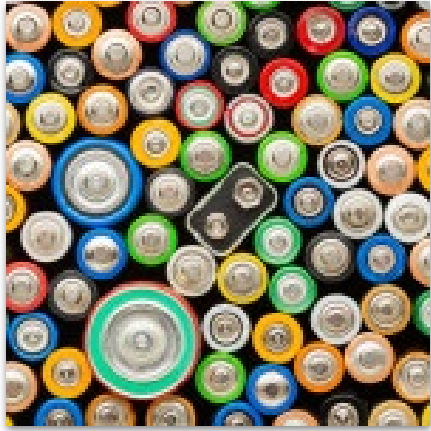
Jeff Gloyd
NERC Webinar 2025



STATISTICS

- 57.4 Mt (Million Metric Tons) of e-waste was generated in 2021. The total is growing by an average of 2 Mt a year.
- There is over 347 Mt of unrecycled e-waste on earth in 2023.
- China, the US, and India produce the most e-waste.
- Only 17.4% of e-waste is known to be collected and properly recycled.
- The e-waste recycling market was valued at \$49,880 million in 2020.

HAZARDS IN THE WASTE STREAM



THE CURRENT PROCESS

- 36 EOL Shredders in N America
- Some level of mechanical and manual separation
- 100s of ITAD refurbishers/resellers



SOLUTIONS



- Identify and remove items – Visia or manual sortation
- Fire suppression
- New Technology – Battery-in-device-shredding (BIDS)
- Value of material – tipping fees, commodity value, who pays the price?

SOLUTIONS :New shredding system – BIDS



BIDS
BATTERY-IN-DEVICE SHREDDING

POWERED BY GLOYD RECYCLING

NEXT HAZARDOUS ISSUE



- Don't need one!
- Focus on policy but expand beyond typical early adopter states



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